PATENT COOPERATION TREATY PCT



INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

7145	FOR FURTHER ACTION as we	see Form PC1/ISA/220 ell as, where applicable, item 5 below.			
International application No.	International filing date(day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/JP2005/015308	17.08.2005	20.08.2004			
Applicant		* 1º 1/2			
SHOWA DENKO K.K.					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists of	ional search report consists of a total of Sheets. is also accompanied by a copy of each prior art document cited in this report.				
It is also accompanied by a co	py of each prior art document cited in this rep	oort.			
 Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). 					
b. With regard to any nucleotic	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.				
2. Certain claims were found	Certain claims were found unsearchable (See Box II).				
3. Unity of invention is lackin	Unity of invention is lacking (See Box III).				
4. With regard to the title,	o the title, ext is approved as submitted by the applicant.				
	•				
the text has been established	the text has been established by this Authority to read as follows:				
-					
5 With sound to the above 4					
5. With regard to the abstract, the text is approved as submi	tted by the applicant.				
the text has been established	l, according to Rule 38.2(b), by this Authori	ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
6. With regard to the drawings,					
a. the figure of the drawings to be published with the abstract is Figure No.					
as suggested by the applicant.					
	nority, because the applicant failed to suggest	a figure.			
	nority, because this figure better characterizes				
b. none of the figures is to be pr	· · · · · · · · · · · · · · · · · · ·	-· · · · · · · · · · · · · · · · · · ·			

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/015308

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. 7 H01L33/00, 21/301

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ H01L33/00, 21/301

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005

Registered utility model applications of Japan 1971-2005 Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. JP 2004-31526 A (TOYODA GOSEI KK) 2004.01.29, 11, 7-12 X Paragraph [0013]-[0015][0020][0021], Figure 1 Y & US 2005/186760 A1 & EP 1376687 A2 & CN 1484328 A JP 2001-284293 A (TOYODA GOSEI KK) 2001.10.12, Y Paragraph [0019]-[0024], Figures 2-3 & WO 2001/75954 A1 & US 2003/121511 A1 & AU 4113601 A JP 11-163403 A (NICHIA KAGAKU KOGYO KK) 1999.06.18, Y Paragraph [0054][0060], Figures 3-4 (Family: None)

V	Further documents are listed in the continuation of Box C.	See patent family annex.	
* "A" "E" "L" "O" "P"	considered to be of particular relevance earlier application or patent but published on or after the inter- national filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such	
Date of the actual completion of the international search 08.09.2005		Date of mailing of the international search report 27.09.2005	
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Authorized officer Saido Shingo Telephone No. +81-3-3581-1101 Ext. 3255	

INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/015308

		2003/013300
C (Continuat	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-284291 A (TOYODA GOSEI KK) 2001.10.12, Full text, All Drawings (Family: None)	1-12
A	JP 2003-17790 A (MATSUSHITA ELECTRIC IND CO LTD) 2003.01.17, Full text, All Drawings (Family: None)	1-12
A	JP 2003-78164 A (NICHIA KAGAKU KOGYO KK) 2003.03.14, Full text, All Drawings (Family: None)	1-12
A	JP 2003-218065 A (NICHIA KAGAKU KOGYO KK) 2003.07.31, Full text, All Drawings (Family: None)	1-12
A	JP 2003-338638 A (NICHIA KAGAKU KOGYO KK) 2003.11.28, Full text, All Drawings (Family: None)	1-12